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CLAIMS

 A wireless communication network adapted for use in an automated monitoring system for monitoring and controlling a plurality of remote devices via a host computer connected to a wide area network, the wireless communication network comprising:

a plurality of wireless transceivers having unique identifiers, each of the plurality of wireless transceivers configured to receive a sensor data signal from one of the plurality of remote devices and transmit an original data message using a predefined wireless communication protocol, the original data message comprising the corresponding unique identifier and sensor data signal, and further configured to receive the original data message transmitted by one of the other wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal and the corresponding unique identifier; and

a site controller in communication with at least one of the plurality wireless transceivers, the site controller configured to receive the original data messages and the repeated data messages, identify the remote device associated with the corresponding sensor data signal, and provide information related to the sensor data signal to the wide area network for delivery to the host computer.

2. The wireless communication network of claim 1, further comprising a plurality of repeaters having unique identifiers, each of the plurality of repeaters in communication with at least one of the plurality of wireless transceivers and configured to receive the original data message transmitted by the at least one of the plurality of wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal from the original data message and the unique identifier corresponding to the repeater.

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3. Th	e wireless commun	nication network of	claim 1, wherein the	site
controller is furth	er configured to prov	ride a command mess	sage to one of the pluralit	y of
wireless transcei	vers and each of th	ne plurality of wire	less transceivers are fur	ther
configured to tran	ısmit, in response to	the command messas	ge, the original data mess	age,
wherein the origin	nal data message corr	esponds to the comn	nand message	

- The wireless communication network of claim 1, wherein the predefined communication protocol comprises a data packet comprising:
 - a receiver address identifying the receiver of the data packet;
 - a sender address identifying the sender of the data packet; and
- a command indicator specifying a predefined command code. 5
 - 5. The wireless communication network of claim 1, wherein the plurality of wireless transceivers are further configured to receive signals via Bluetooth technology.
 - 6. The wireless communication network of claim 1, wherein the plurality of wireless transceivers are further configured to receive signals via IEEE standard 802.11(b).
 - 7. The wireless communication network of claim 4, wherein the data packet further comprises:
 - a packet length indicator which indicates a total number of bytes in the current packet;
 - a total packet indicator which indicates the total number of packets in the current message; and
 - a current packet indicator which identifies the current packet; and
 - a message number identifying the current message.

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8 A wireless communication network adapted for use in an automated monitoring system for monitoring and controlling a plurality of remote devices via a host computer connected to a wide area network, the wireless communication network comprising:

a plurality of wireless communication means having unique identifiers, each of the plurality of wireless communication means configured to receive a sensor data signal from one of the plurality of remote devices and transmit an original data message using a predefined wireless communication protocol, the original data message comprising the corresponding unique identifier and sensor data signal, and further configured to receive the original data message transmitted by one of the other wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal and the corresponding unique identifier;

a means for receiving each of the original data messages and the repeated data messages;

a means for identifying, for each received message, the remote device associated with the corresponding sensor data signal; and

a means for providing information related to the sensor data signal to the wide area network for delivery to the host computer.

9. The wireless communication network of claim 8, further comprising a plurality of repeating means having unique identifiers, each of the plurality of repeating means in communication with at least one of the plurality of wireless communication means and comprising a means for receiving the original data message transmitted by the at least one of the plurality of wireless transceivers and a means for transmitting a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal from the original data message and the unique identifier corresponding to the repeater.

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The wire	less communication ne	twork of claim 8	further comprising				
means for providing	a command message	to one of the	plurality of wireless				
communication means,	wherein each of the	wireless commun	nication means further				
comprise a means for transmitting, in response to the command message, the original							
data message, wherein t	he original data messag	e corresponds to t	he command message.				

- 11. The wireless communication network of claim 8, wherein the predefined communication protocol comprises a data packet comprising:
 - a means for identifying the receiver of the data packet;
 - a means for identifying the sender of the data packet; and
 - a command means for specifying a predefined command code.
- 12. The wireless communication network of claim 11, wherein the data packet further comprises:
 - a means for indicating a total number of bytes in the current packet;
 - a means for indicating the total number of packets in the current message;
 - a means for identifying the current packet; and
 - a means for identifying the current message.

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13. A wireless communication network for monitoring and controlling a plurality of remote devices via a host computer connected to a wide area network, the wireless communication network comprising:

a plurality of wireless transceivers having unique identifiers, each of the plurality of wireless transceivers configured to receive a sensor data signal from one of the plurality of remote devices and transmit an original data message using a predefined wireless communication protocol, the original data message comprising the corresponding unique identifier and sensor data signal, and further configured to receive the original data message transmitted by one of the other wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal and the corresponding unique identifier;

wherein at least one of the plurality of wireless transceivers is further configured to provide the original data messages and the repeated data messages to a site controller connected to the wide area network.

- 14. The wireless communication network of claim 13, further comprising a plurality of repeaters having unique identifiers, each of the plurality of repeaters in communication with at least one of the plurality of wireless transceivers and configured to receive the original data message transmitted by the at least one of the plurality of wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal from the original data message and the unique identifier corresponding to the repeater.
- 15. The wireless communication network of claim 13, wherein the at least one of the plurality of wireless transceivers is further configured to receive a command message for one of the plurality of wireless transceivers from the site controller and transmit the command message to the one of the plurality of wireless transceivers.

1	16. The wireless communication network of claim 13, wherein the							
2	predefined communication protocol comprises a data packet comprising:							
3	a receiver address identifying the receiver of the data packet;							
4	a sender address identifying the sender of the data packet; and							
5	a command indicator specifying a predefined command code.							
1	17. The wireless communication network of claim 13, wherein the plurality							
2	of wireless transceivers are further configured to receive signals via Bluetooth							
3	technology.							
1	18. The wireless communication network of claim 13, wherein the plurality							
2	of wireless transceivers are further configured to receive signals via IEEE standard							
3	802.11(b).							

- 19. The wireless communication network of claim 16, wherein the data packet further comprises:
- a packet length indicator which indicates a total number of bytes in the current packet;
- a total packet indicator which indicates the total number of packets in the current message; and
 - a current packet indicator which identifies the current packet; and
 - a message number identifying the current message.

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20. A wireless communication network for monitoring and controlling a plurality of remote devices via a host computer connected to a wide area network, the wireless communication network comprising:

a plurality of wireless transceivers having unique identifiers, each of the plurality of wireless transceivers configured to receive a sensor data signal from one of the plurality of remote devices and transmit an original data message using a predefined wireless communication protocol, the original data message comprising the corresponding unique identifier and sensor data signal, and further configured to receive the original data message transmitted by one of the other wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal and the corresponding unique identifier;

wherein at least one of the plurality of wireless transceivers is further configured to provide the original data messages and the repeated data messages to a primary wireless communication network associated with an automated monitoring system.

- 21. The wireless communication network of claim 20, further comprising a plurality of repeaters having unique identifiers, each of the plurality of repeaters in communication with at least one of the plurality of wireless transceivers and configured to receive the original data message transmitted by the at least one of the plurality of wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal from the original data message and the unique identifier corresponding to the repeater.
- 22. The wireless communication network of claim 20, wherein the at least one of the plurality of wireless transceivers is further configured to receive a command message for one of the plurality of wireless transceivers from the primary wireless communication network and transmit the command message to the one of the plurality of wireless transceivers.

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	23.	The	wireless	communication	network	of	claim	20,	wherein	the
predefined communication protocol comprises a data packet comprising:										
a receiver address identifying the receiver of the data packet;										
a sender address identifying the sender of the data packet; and										
a command indicator specifying a predefined command code.										
	24.	The	wireless c	ommunication n	etwork of	clain	n 20, w	herei	n the plur	ality

- of wireless transceivers are further configured to receive signals via Bluetooth technology.
- 25 The wireless communication network of claim 20, wherein the plurality of wireless transceivers are further configured to receive signals via IEEE standard 802.11(b).
- 26. The wireless communication network of claim 23, wherein the data packet further comprises:
- a packet length indicator which indicates a total number of bytes in the current packet:
- a total packet indicator which indicates the total number of packets in the current message; and
 - a current packet indicator which identifies the current packet; and
 - a message number identifying the current message.